

**DESCRIPTION:**

PMI MODEL P2T-10M6G-45-R-5V-SFF-HIP20W-HERM IS A REFLECTIVE, SINGLE POLE, TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 10 MHz TO 6000 MHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER LEVEL OF 20 WATTS CW WHILE PROVIDING SWITCHING SPEEDS OF <100 ns AND REQUIRES A SINGLE +5 VDC SUPPLY. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/17/2025	

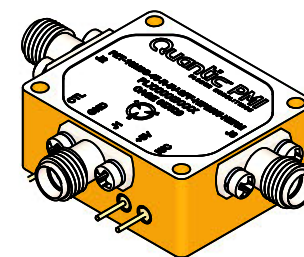
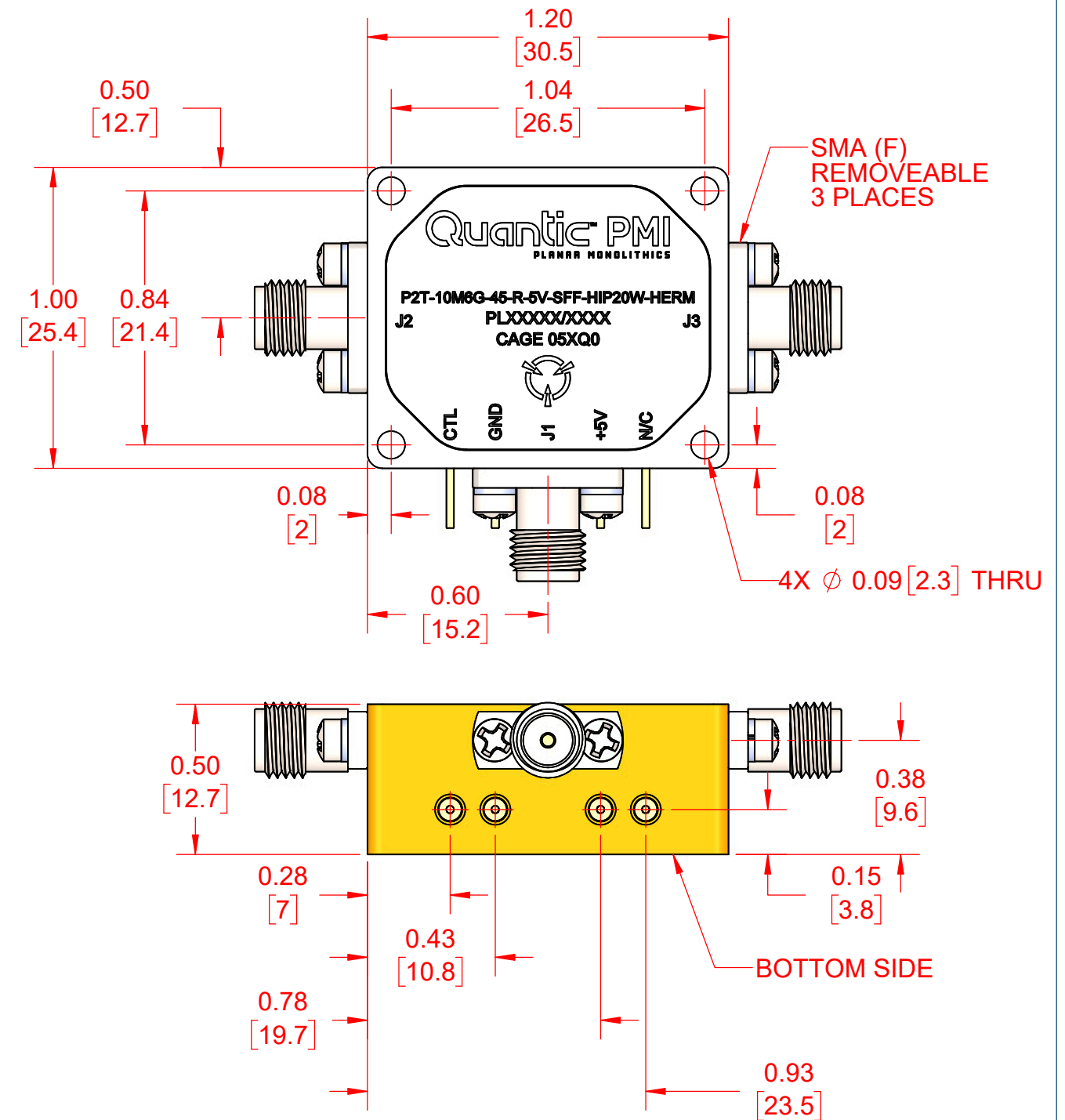
**SPECIFICATIONS:**

- FREQUENCY:..... 10 TO 6000 MHz
- ISOLATION:..... 25 dB TYP, 20 dB MIN
- INSERTION LOSS:..... 2.5 dB TYP, 2.8 dB MAX
- VSWR:..... 2.0:1 TYP
- OPERATING INPUT POWER:..... 20 WATTS CW MAX  
(NOT TO BE SWITCHED ANY HIGHER THAN 50 kHz [PRI])
- SWITCHING SPEED:..... 100 ns MAX (50% TTL TO 10%/90% RF)
- IMPEDANCE:..... 50 Ω
- POWER SUPPLY :..... +5 V @ 30 mA TYP
- CONTROL:..... TTL LOGIC (SEE TABLE)
- CONNECTORS:..... SMA (F) - MECHANICALLY CAPTIVATED
- CONTROL CONNECTORS:..... SOLDER PINS
- FINISH:..... GOLD PLATED  
POST-MACHINED SURFACES CHEMICALLY COATED IAW MIL-DTL-5541, TYPE II, CLASS 3
- SEALING:..... HERMETIC

CTL	J1-J2	J1-J3
0	ON	OFF
1	OFF	ON

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -54°C TO +85°C (OPERATING)  
-55°C TO +125°C (STORAGE)
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- SPACE SCREENING:..... MIL-PRF-38534 CLASS H
- PIND:..... MIL-STD-883, METHOD 2020



PMI CONFIDENTIAL AND PROPRIETARY

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS DRAWN J ESCANO REDRAWN ISSUED		DATE 4/17/2025	TITLE OUTLINE P2T-10M6G-45-R-5V-SFF-HIP20W-HERM		REV. A1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		SIZE B	FSCM NO. 05XQ0	DWG NO. 27051480	SCALE 2:1 SHEET 1 OF 1

**Quantic PMI**  
PLANAR MONOLITHICS

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